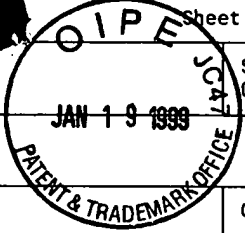
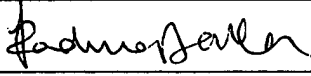


SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 00786/292002		SERIAL NO. 09/068,804	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT Samuel I. Miller		<div style="text-align: center;">  </div>	
				FILING DATE May 14, 1998			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	AA	PATENT NUMBER 4 6 0 3 1 5 2	ISSUE DATE 7/29/86	PATENTEE Laurin et al.	CLASS ↓	SUBCLASS ↗	FILING DATE IF APPROPRIATE
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
AB	WO 90/11687	10/18/90	PCT	↑	↑		
AC	WO 92/17785	10/15/92	PCT	↑	↑		
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
AD	Allaoui et al., "MxiD, an outer membrane protein necessary for the secretion of the <i>Shigella flexneri</i> Ipa invasins" <i>Molecular Microbiology</i> 7:59-68 (1993)						
AE	Allaoui et al., MxiJ, a Lipoprotein Involved in Secretion of <i>Shigella</i> Ipa Invasins, Is Homologous to YscJ, a Secretion Factor of the <i>Yersinia</i> Yop Proteins" <i>Journal of Bacteriology</i> , 174:7661-7669 (1992)						
AF	Andrews et al., "Two Novel Virulence Loci, <i>mxIA</i> and <i>mxIB</i> , in <i>Shigella flexneri</i> 2a Facilitate Excretion of Invasion Plasmid Antigens" <i>Infection and Immunity</i> , 59:1997-2005 (1991)						
AG	Andrews et al., " <i>mxIA</i> of <i>Shigella flexneri</i> 2a, Which Facilitates Export of Invasion Plasmid Antigens, Encodes a Homolog of the Low-Calcium-Response Protein, LcrD, of <i>Yersinia pestis</i> " <i>Infect. & Immun.</i> , 60:3287-3295 (92)						
AH	Babinet et al., "Specific Expression of Hepatitis B Surface Antigen (HBsAg) in Transgenic Mice" <i>Science</i> , 230:1160-1163 (1985)						
AI	Baudry et al., "Localization of Plasmid Loci Necessary for the Entry of <i>Shigella flexneri</i> into HeLa Cells, and Characterization of One Locus Encoding Four Immunogenic Polypeptides" <i>Journal Gen. Microbiology</i> 133: 3403-3413 (1987)						
AJ	Behlau et al., "A PhoP-Repressed Gene Promotes <i>Salmonella typhimurium</i> Invasion of Epithelial Cells" <i>J. Bacteriol.</i> 175:4475-4484 (1993)						
AK	Collazo et al., "Functional analysis of the <i>Salmonella typhimurium</i> invasion genes <i>invL</i> and <i>invJ</i> and identification of a target of the protein secretion apparatus encoded in the <i>inv</i> locus" <i>Mol. Micro.</i> 15:25-38, (1995)						
AL	Feng et al., "Progressive Sequence Alignment as a Prerequisite to Correct Phylogenetic Trees" <i>J. Mol. Evol.</i> 25:351-360 (1987)						
EXAMINER 				DATE CONSIDERED 10/9/99			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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	APPLICANT Samuel I. Miller		
	FILING DATE May 14, 1998	GROUP 1645	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
BB							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

BC	Groisman et al., "Cognate gene clusters govern invasion of host epithelial cells by <i>Salmonella typhimurium</i> and <i>Shigella flexneri</i> , The Embo Journal, 3779-3787 (1993)
BD	Hantman et al., "Defective Extracellular Protein Secretion by <i>Salmonella typhimurium</i> Mutants Impaired in Induction of Eucaryotic Cell Membrane Ruffling and Macrophinocytosis" American society for Microbiology May 21-25 (1995) pp. 183-185
BE	Hermant et al., "Functional conservation of the <i>Salmonella</i> and <i>Shigella</i> effectors of entry into epithelial cells," Molecular Microbiology, 17:781-789, (1995)
BF	Higgins et al., "Fast and sensitive multiple sequence alignments on a microcomputer" Cabios Communications, 5:151-153 (1989)
BG	Hueck et al., " <i>Salmonella typhimurium</i> secreted invasion determinants are homologous to <i>Shigella</i> Ipa proteins," Molecular Microbiology, 18:479-490, (1995)
BH	Kaniga et al., "Homologs of the <i>Shigella</i> IpaB and IpaC Invasins Are Required for <i>Salmonella typhimurium</i> Entry into Cultured Epithelial Cells", Journal of Bacteriology, 177:3965-3971, (1995)
BI	Menard et al., "The secretion of the <i>Shigella flexneri</i> Ipa invasins is activated by epithelial cells and controlled by IpaB and IpaD" The Embo Journal 5293-5302 (1994)
BJ	Miller et al., "A two-component regulatory system (<i>phoP phoQ</i>) controls <i>Salmonella typhimurium</i> virulence" Proc. Natl. Acad. Sci. USA, 86:5054-5058, (1989)
BK	Miller et al., " <i>Salmonella</i> Vaccines with Mutations in the <i>phoP</i> Virulence Regulon" Res. Microbiol. 141:817-821, (1990)

EXAMINER	DATE CONSIDERED
<i>Samuel I. Miller</i>	10/7/99

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		APPLICANT Samuel I. Miller	
	FILING DATE May 14, 1998	GROUP	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	CB							
	CC							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	CD	Miller et al., "Constitutive Expression of the PhoP Regulon Attenuates <i>Salmonella</i> Virulence and Survival within Macrophages" J. Bacteriol., 172:2485-2490, (1990)
	CE	Mills et al., "A 40 kb chromosomal fragment encoding <i>Salmonella typhimurium</i> invasion genes is absent from the corresponding region of the <i>Escherichia coli</i> K-12 chromosome" Molecular Microbiology 15:749-759 (1995)
	CF	Paradee et al., "Assay of β -Galactosidase" Journal of Bacteriology, 174:352-355 Experiment 48 (1992)
	CG	Pegues et al., "PhoP/PhoQ transcriptional repression of <i>Salmonella typhimurium</i> invasion genes: evidence for a role in protein secretion" Molecular Microbiology, 17:169-181 (1995)
	CH	Pulkkinen et al., "A <i>Salmonella typhimurium</i> Virulence Protein Is Similar to a <i>Yersinia enterocolitica</i> Invasion Protein and a Bacteriophage Lambda Outer Membrane Protein" Journal of Bacteriology, 173:86-93 (1991)
	CI	Sasakawa et al., "Functional organization and nucleotide sequence of virulence Region-2 on the large virulence plasmid in <i>Shigella flexneri</i> 2a" Molecular Microbiology 3:1191-1201 (1989)
	CJ	Sory et al., "Translocation of a hybrid YopE-adenylate cyclase from <i>Yersinia enterocolitica</i> into HeLa cells" Molecular Microbiology, 14:583-594 (1994)
	CK	Venkatesan et al., "Characterization of invasion plasmid antigen genes (ipaBDC) from <i>Shigella flexneri</i> " Proc. Natl. Acad. Sci. 85:9317-9321 (1988)
	CL	Supplementary European Search Report (EP 92 90 4089)

EXAMINER		DATE CONSIDERED	10/7/99
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